NC/PMC/YD/W3/2018-19/C1 Date: 22-10-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts.

PHYSICAL TESTS ON CEMENT

Brand : ACC
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**158 min**	Shall not be less than 30 min
2	Final setting time	**228 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.72 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.90 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results) b) 7 days (average of three results)	**28.65 N/Sq mm** **39.50 N/Sq mm**	Shall not be less than 27 N/Sqmm Shall not be less than 37N/Sqmm

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NC/PMC/YD/W3/2018-19/PCC1 Date: 22-10-2018

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	64.10	0 -20	30- 70
10mm	22.65	0 -5	10- 35
4.75mm	3.80	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.10	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	86.45	60-95	75-100	85-100	
01.18	78.20	30-70	55-90	75-100	
600.mic	49.25	15-34	35-59	60-79	
300.mic	24.30	5-20	8-30	12-40	
150.mic	6.85	0-10	0-10	0-10	

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NC/PMC/YD/W3/2018-19/SSM1 Date: 25-10-2018

1. TESTING OF STONE SAMPLE :

Sub: Testing of Size stone.
{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts.
Technical Reference: IS 1121(Part 1) -1974 (R.A on 1998)

Table 1.1 :

SL No	Details of Tests	Observed Value	Normal Values
01	Compressive Strength	**1385.00** Kg/ Sqcm	Not less than 1000.00 Kg/Sqcm
02	Water absorption,%	**0.38%**	Not more than 2.0 %

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NC/PMC/YD/W3/2018-19/SSM2 Date: 26-10-2018

1. TESTING OF STONE SAMPLE :

Sub: Testing of Size stone.
{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts.
Technical Reference: IS 1121(Part 1) -1974 (R.A on 1998)

Table 1.1 :

SL No	Details of Tests	Observed Value	Normal Values
01	Compressive Strength	1410.00 Kg/ Sqcm	Not less than 1000.00 Kg/Sqcm
02	Water absorption,%	0.36%	Not more than 2.0 %

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NC/PMC/YD/W3/2018-19/C2 Date: 29-10-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts.

PHYSICAL TESTS ON CEMENT

Brand : ACC
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	148min	Shall not be less than 30 min
2	Final setting time	249 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.84 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	1.32 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results) b) 7 days (average of three results)	28.65 N/Sq mm 39.50 N/Sq mm	Shall not be less than 27 N/Sqmm Shall not be less than 37N/Sqmm

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NC/PMC/YD/W3/2018-19/FA1 Date: 29-10-2018

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts.

TABLE - 1.1 : SIEVE ANALYSIS

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone –III	
04.75	**97.65**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**88.40**	60-95	75-100	85-100	
01.18	**73.70**	30-70	55-90	75-100	
600. mic	**44.85**	15.34	35-59	60-79	
300.mic	**24.10**	5-20	8-30	12-40	
150.mic	**8.25**	0-10	0-10	0-10	

TABLE 1.2 :

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**15.36%**	-----
2	Silt Content	----	**0.59%**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

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NC/PMC/YD/W3/2018-19/CA1 Date: 29-10-2018

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100 00	100.00
20 mm	97.80	85-100	90 - 100
10 mm	48.35	0 - 20	25 - 55
4.75 mm	3.20	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS 383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	24.45 %	Not to exceed 25 %
2.	Crushing value	26.30 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/PMC/YD/W3/2018-19/S1 Date: 30-10-2018

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10 & 12mm **TMT Steel.**
{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts.

TABLE – 1

SL No	Details	For 10 mm		For 12 mm	
		Test Results	Min Req as per IS 1786-2008	Test Results	Min Req as per IS 1786-2008
01	Observed diameter of bar	**10.0 mm**	10.0 mm	**12.0 mm**	12.0 mm
02	Observed Wt/m Length **Kg/m**	**0.628**	0.567	**0.886**	0.834
03	Proof stress/Yield stress, fy , **N/mm^2**	**546.0**	500.0	**549.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**20.30**	12.00	**20.70**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**639.0**	545.0	**641.0**	545.0

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NC/PMC/YD/W3/2018-19/CB1 Date: 07-11-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	31-10-18	07-11-18	07	22500	275	12.22	**12.22**
	002	"	"	"	"	290	12.89	
	003	"	"	"	"	260	11.56	

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NC/PMC/YD/W3/2018-19/CB1a Date: 28-11-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	31-10-18	28-11-18	28	22500	280	12.44	11.93
	002	"	"	"	"	260	11.56	
	003	"	"	"	"	265	11.78	

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NC/PMC/YD/W3/2018-19/CB2 Date: 10-11-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	03-11-17	10-11-18	07	22500	390	17.33	16.96
	002	"	"	"	"	380	16.89	
	003	"	"	"	"	375	16.67	

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NC/PMC/YD/W3/2018-19/CB2a Date: 01-12-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	03-11-17	01-12-18	28	22500	490	21.78	22.30
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	505	22.44	

Page No. 1/1,

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NC/PMC/YD/W3/2018-19/G1 Date: 03-10-2018

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (with close graded materials, Grade-II) mix.
{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts.

TEST RESULTS

1. **Gradation Test:**
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
26.50	**97.45**	70-100
9.50	**61.50**	50-80
4.75	**52.45**	40-65
2.36	**43.60**	30-50
0.425	**12.55**	10-15
0.075	**3.95**	<5

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Date: 03-10-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M.o R.T.H Specification, V Revision -2013.
1.	Water absorption, %	0.38 %	Not more than 2.0 %
2.	Liquid Limit, %	17.50	Not more than 25.0 %
3.	Plasticity Index, %	NP	Not more than 6.0 %
4.	Moisture Content, %	7.34	----------
5.	Aggregate Impact Value, %	27.52	Not more than 40.00 %

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NC/PMC/YD/W3/2018-19/G2 Date: 04-10-2018

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (with close graded materials, Grade-II) mix.
{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts

TEST RESULTS

1. **Gradation Test:**

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
26.50	97.85	70-100
9.50	57.60	50-80
4.75	52.30	40-65
2.36	39.65	30-50
0.425	13.50	10-15
0.075	3.75	<5

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Date: 04-10-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	0.35 %	Not more than 2.0 %
2.	Liquid Limit, %	20.12	Not more than 25.0 %
3.	Plasticity Index, %	NP	Not more than 6.0 %
4.	Moisture Content, %	5.75	----------
5.	Aggregate Impact Value, %	26.30	Not more than 40.00 %

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NC/PMC/YD/W3/2018-19/G3 Date: 06-10-2018

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (with close graded materials, Grade-II) mix.
{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts.

TEST RESULTS

1. **Gradation Test:**
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
26.50	**98.10**	70-100
9.50	**63.65**	50-80
4.75	**50.24**	40-65
2.36	**42.50**	30-50
0.425	**13.15**	10-15
0.075	**3.55**	<5

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Date: 06-10-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	0.36%	Not more than 2.0 %
2.	Liquid Limit, %	17.95	Not more than 25.0 %
3.	Plasticity Index, %	NP	Not more than 6.0 %
4.	Moisture Content, %	5.85	----------
5.	Aggregate Impact Value, %	27.54	Not more than 40.00 %

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NC/PMC/YD/W3/2018-19/G4 Date: 09-10-2018

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (with close graded materials, Grade-II) mix.
{Project*: Improvement and asphalting to roads Construction of Rangamandira Improvements and Providing Chainlink fencing to Parks in ward no. 03 of Yelahanka New town sub division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka New town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts.

TEST RESULTS

1. **Gradation Test:**
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
26.50	**94.35**	70-100
9.50	**70.20**	50-80
4.75	**51.65**	40-65
2.36	**38.40**	30-50
0.425	**11.90**	10-15
0.075	**4.10**	<5

KIRAN. R
M.E, (Civil-En...)

For Newzen Consultants Bangalore
Proprietor

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Date: 09-10-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	0.37%	Not more than 2.0 %
2.	Liquid Limit, %	19.25	Not more than 25.0 %
3.	Plasticity Index, %	NP	Not more than 6.0 %
4.	Moisture Content, %	6.10	----------
5.	Aggregate Impact Value, %	27.35	Not more than 40.00 %

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